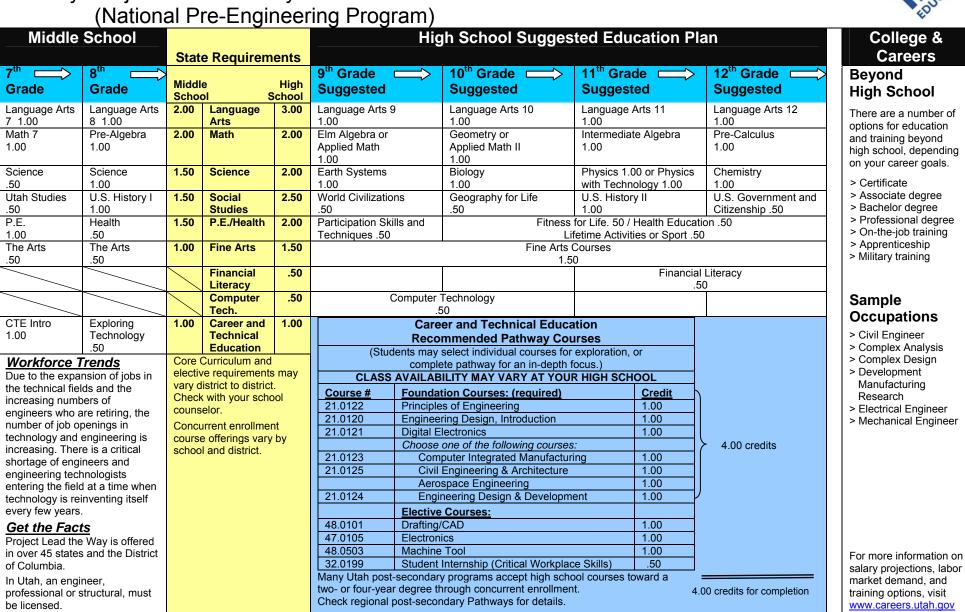
High School to College and Career Pathway: Secondary

Area of Study: Technology and Engineering Education

Pathway: Project Lead the Way



High School to College and Career Pathway: Secondary Area of Study: Technology and Engineering Education

Pathway: Pre-Engineering

(Utah Pre-Engineering Plan)



Middle School				High School Suggested Education Plan				College &	
		State Requirements						Careers	
7 th \Longrightarrow Grade	8 th —> Grade	Middle High School School		9 th Grade	10 th Grade Suggested	11 th Grade \Longrightarrow Suggested	12 th Grade Suggested	Beyond High School	
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.0	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	Language Arts 12 1.00	There are a number of options for education
Math 7 1.00	Pre-Algebra 1.00	2.00	Math	2.00	Elm Algebra or Applied Math 1.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	Pre-Calculus 1.00	and training beyond high school, depending on your career goals.
Science .50	Science 1.00	1.50	Science	2.00	Earth Systems 1.00	Biology 1.00	Physics 1.00 or Physics with Technology 1.00	Chemistry 1.00	> Certificate
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies	2.50	World Civilizations .50	Geography for Life .50	U.S. History II 1.00	U.S. Government and Citizenship .50	Associate degreeBachelor degree
P.E. 1.00	Health .50	1.50	P.E./Health	2.00	Participation Skills and Fitness for Life. 50 / Health Education .50 Techniques .50 Lifetime Activities or Sport .50				> Professional degree > On-the-job training
The Arts .50	The Arts .50	1.00	Fine Arts	1.50	Fine Arts Courses 1.50				> Apprenticeship > Military training
			Financial Literacy	.50			Financial .5(
			Computer Tech.	.50		Technology 50			Sample
CTE Intro 1.00	Exploring Technology .50	1.00	Career and Technical Education	1.00	Career and Technical Education Recommended Pathway Courses (Students may select individual courses for exploration, or				Occupations > Civil Engineer > Civil Engineering
Workforce Trends Due to the expansion of jobs in		Core Curriculum and elective requirements may		complete pathway for an in-depth focus.) CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL				Technician > Electrical Engineer	
the technical fields and the increasing numbers of engineers who are retiring, the		vary district to district. Check with your school counselor.		Course # Foundar 21.0104 Foundat	tion Courses: (required) ions of Technology ring Design	Credit .50 .50	2.50 credits	> Mechanical Engineer > Mechanical Engineering Technician	
number of job openings in technology and engineering is increasing. There is a critical shortage of engineers and		Concurrent enrollment course offerings vary by school and district.			21.0116 Materials 21.0114 Pre-Eng	s & Processes ineering (capstone course)	.50 1.00	2.50 Credits	
engineering technologists entering the field at a time when technology is reinventing itself					48.0101 Drafting/ 47.0105 Electron	/CAD	1.00 1.00 .50	.50 credits	
every few years. Get the Facts					08.0707 Marketin	ng, Introduction Internship (Critical Workplac	.50		For more information on salary projections, labor market demand, and
In Utah, an engineer, professional or structural, must be licensed.					Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details. 3.00 credits for completion			training options, visit www.careers.utah.gov	

Note: For more information talk to your school counselor.